

Navigation Plan: Earth to Moon

How will you stay on course?



Team name: Commodore Sloat Elementary

Spacecraft name: CSS Enterprise (B2-B3)
(Adam, Annie, Brian, Miranda, Stephanie, Anfernee, Brenda,
Carmen, Mjaye, Justin, Alison, Daniel, Clarissa, Richard,
Brendan, Matthew, Amy, Jordan, Sid)

Launch time and date: March 1, 2009 @ 09:59 GMT

Duration of journey: ~4 days

Expected impact date: March 5, 2009

Description of route and orbital paths:

- Following Apollo missions' routes.
- Circle the earth, turn to shift orbits.
- Circle the moon and use craters to locate the moon's North Pole.
- Use propulsion engine to turn and prepare for landing.

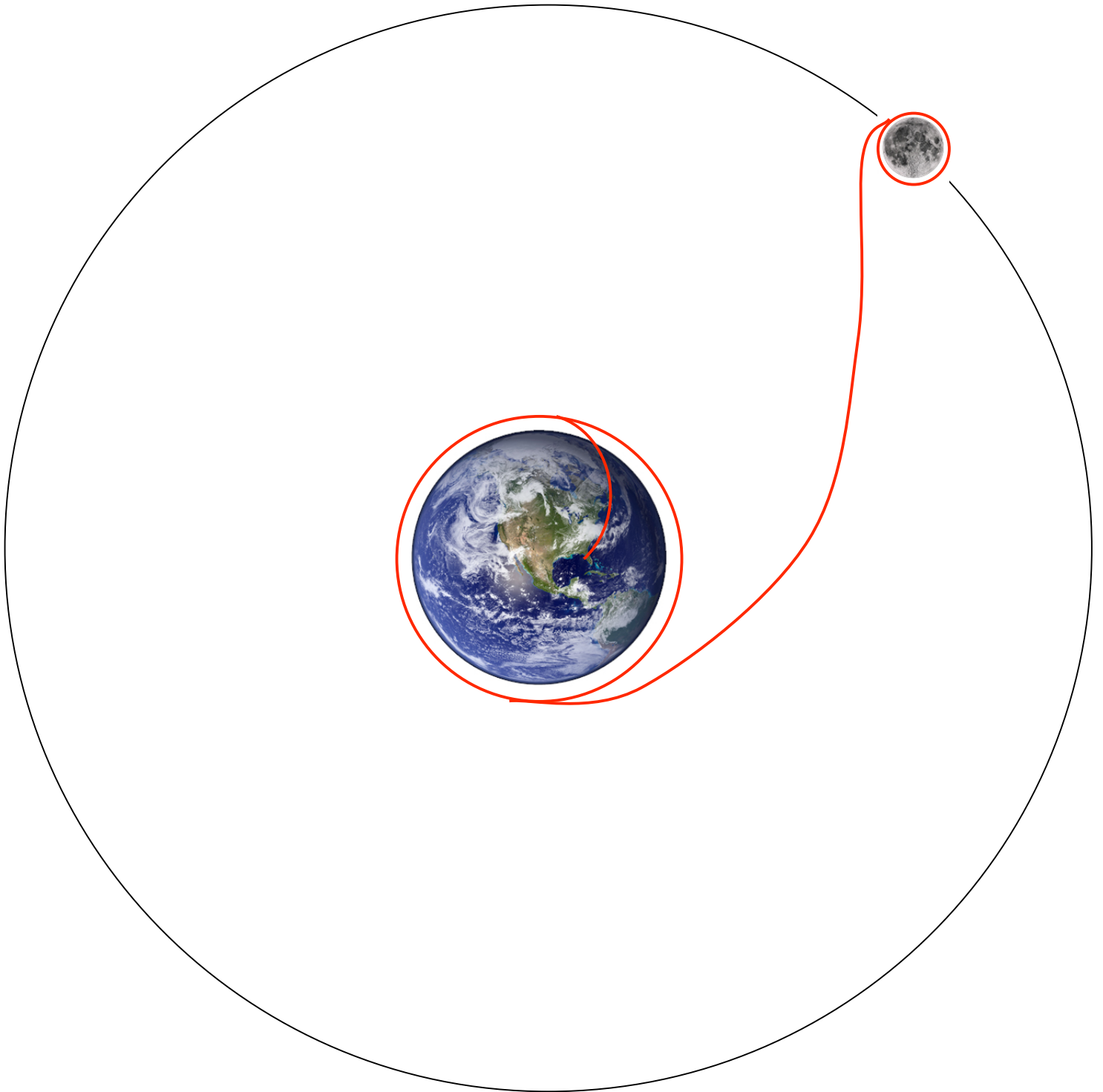
Navigation instruments:

- short wave radio for communication to mission control
- super computer for calculating and tracking CSS Enterprise's position

Methods of guidance, navigation, control, and tracking:

- use earth, planets, moons, stars and craters on the moon's surface as reference points to determine relative position
- use radio to send position to mission control
- mission control will calculate trajectory and send navigational instructions back to CSS Enterprise

Navigation Map: Earth to Moon



Note: This “map” is just a suggestion. You may move or delete the images on this page to suit students’ needs, or you can print the images and have students cut them out to use in a different format, etc.